

## Iuplace™ LV40

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

| General Information                         |                                                       |                                                           |                 |
|---------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------|
| Product Description                         |                                                       |                                                           |                 |
| V-1                                         |                                                       |                                                           |                 |
| General                                     |                                                       |                                                           |                 |
| Features                                    | • Flame Retardant                                     |                                                           |                 |
| Uses                                        | • Automotive Applications<br>• Automotive Electronics | • Electrical/Electronic Applications<br>• General Purpose |                 |
| ASTM & ISO Properties <sup>1</sup>          |                                                       |                                                           |                 |
| Physical                                    | Nominal Value                                         | Unit                                                      | Test Method     |
| Density                                     | 1.10                                                  | g/cm³                                                     | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (300°C/2.16 kg) | 16                                                    | cm³/10min                                                 | ISO 1133        |
| Molding Shrinkage                           |                                                       |                                                           | Internal Method |
| Across Flow : 3.20 mm                       | 0.50 to 0.70                                          | %                                                         |                 |
| Flow : 3.20 mm                              | 0.50 to 0.70                                          | %                                                         |                 |
| Water Absorption (Saturation, 23°C)         | 0.070                                                 | %                                                         | ISO 62          |
| Mechanical                                  | Nominal Value                                         | Unit                                                      | Test Method     |
| Tensile Stress (Yield)                      | 60.0                                                  | MPa                                                       | ISO 527-2/50    |
| Tensile Strain (Break)                      | 20                                                    | %                                                         | ISO 527-2/50    |
| Flexural Modulus <sup>2</sup>               | 2550                                                  | MPa                                                       | ISO 178         |
| Flexural Stress <sup>2</sup>                | 97.0                                                  | MPa                                                       | ISO 178         |
| Impact                                      | Nominal Value                                         | Unit                                                      | Test Method     |
| Charpy Notched Impact Strength (23°C)       | 12                                                    | kJ/m²                                                     | ISO 179         |
| Thermal                                     | Nominal Value                                         | Unit                                                      | Test Method     |
| Deflection Temperature Under Load           |                                                       |                                                           |                 |
| 0.45 MPa, Unannealed                        | 115                                                   | °C                                                        | ISO 75-2/B      |
| 1.8 MPa, Unannealed                         | 100                                                   | °C                                                        | ISO 75-2/A      |
| CLTE                                        |                                                       |                                                           | ISO 11359-2     |
| Flow                                        | 6.3E-5                                                | cm/cm/°C                                                  |                 |
| Transverse                                  | 6.6E-5                                                | cm/cm/°C                                                  |                 |
| Electrical                                  | Nominal Value                                         | Unit                                                      | Test Method     |
| Surface Resistivity                         | 2.0E+15                                               | ohms                                                      | IEC 60093       |
| Volume Resistivity                          | 3.0E+16                                               | ohms·cm                                                   | IEC 60093       |
| Flammability                                | Nominal Value                                         | Unit                                                      | Test Method     |
| Flame Rating (0.75 mm)                      | V-1                                                   |                                                           | UL 94           |
| Processing Information                      |                                                       |                                                           |                 |
| Injection                                   | Nominal Value                                         | Unit                                                      |                 |
| Drying Temperature - Hot Air Dryer          | 70 to 80                                              | °C                                                        |                 |
| Drying Time - Hot Air Dryer                 | 2.0 to 4.0                                            | hr                                                        |                 |

(+) 18816996168

Ponciplastics.com

# Iupiace™ LV40

## Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 230 to 260    | °C   |
| Middle Temperature | 250 to 280    | °C   |
| Front Temperature  | 250 to 280    | °C   |
| Nozzle Temperature | 240 to 260    | °C   |
| Mold Temperature   | 50 to 90      | °C   |
| Injection Pressure | 20.0 to 150   | MPa  |
| Injection Rate     | Moderate      |      |
| Screw Speed        | 60 to 150     | rpm  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min

(+) 18816996168

Poncioplastics.com